METHOD AND APPARATUS FOR RLL CODE ENCODING AND DECODING

Abstract

An encoder and decoder for encoding data bits of a binary source signal into a stream of data bits of a binary channel signal and vice versa includes a conversion table used to map m-bit source words to codeword having a variable code length with a basic code length of n bits and a total code length of n*i bits, i being an integer of at least 1. The conversion table preserves the parity of the m-bit source words over the codeword and limits a characteristic of the codeword specified for each starting bit position in the code word.